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3/26/03
D. Belle

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:
Davis et al.

Serial No.: 09/744,043

Filed: May 14, 2001

For: TIME-OF-FLIGHT MASS
SPECTROMETER

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Attorney Docket No. 26114.6

Customer No. 27683

Group Art Unit: 2881

Examiner: Gurzo, Paul M.

SUPPLEMENTAL RESPONSE TO OFFICE ACTION

Box Fee Amendment
Commissioner of Patents and Trademarks
Washington, D.C. 20231

Dear Sir:

In response to the Office action mailed October 9, 2002, and in light of the Response filed January 9, 2003, please consider the following new claim and additional remarks:

In the claims:

Please add new claim 26 as follows: ✓

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26.00 (New) A time of flight mass spectrometer for measuring the m/z of ionised particles, the spectrometer comprising:

an ion source for generation of said ionised particles;

an accelerator for acceleration of said ionised particles so as to form an ion beam; and

at least two detectors for sampling from the ion beam, such that a share of the ion beam is detected on each of the two detectors, wherein the difference or average differences in the time of flights for any or all ions of a given m/z to each of the two detectors is used for improving the accuracy of measurement of the m/z values of ions.

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